

What is claimed is:

1. A controlled release additive composition for use in an aqueous system comprising:
a core comprising an additive component; and
a coating substantially surrounding the core, the coating being insoluble and including polymers made up of units from no more than two monomers.
(see p. 10)
2. The controlled release additive composition of claim 1 wherein the aqueous system is a cooling system.
3. The controlled release additive composition of claim 1 wherein the aqueous system is an open circulating water cooling system.
4. The controlled release additive composition of claim 1 wherein the aqueous system is an open circulating system of a cooling tower.
5. The controlled release additive composition of claim 1, wherein said coating includes copolymers made up of units from vinylacetate and an ethylenically unsaturated monomer.
6. The controlled release additive composition of claim 5 wherein the ethylenically unsaturated monomer is selected from the group consisting of vinylversatate and ethylene.
7. The controlled release additive composition of claim 1, wherein said coating includes copolymers made up of units from vinylacetate and vinylversatate.

(in Method 1)

8. The controlled release additive composition of claim 1, wherein said coating includes copolymers made up of units from vinylacetate and an ethylene.

9. The controlled release additive composition of claim 1, wherein the coating includes polymers made up of about 45% to about 95% by weight of the units which are from a vinylacetate and about 5% to about 55% by weight of the units which are from an ethylenically unsaturated monomer.

10. The controlled release additive composition of claim 9, wherein ethylenically unsaturated monomer is selected from the group consisting of vinylversatate and ethylene.

11. The controlled release additive composition of claim 1, wherein the coating includes polymers made up of about 45% to about 95% by weight of the units which are from a vinylacetate and about 5% to about 55% by weight of the units which are from a vinylversatate.

12. The controlled release additive composition of claim 1, wherein the coating includes polymers made up of about 45% to about 95% by weight of the units which are from a vinylacetate and about 5% to about 55% by weight of the units which are from an ethylene.

13. The controlled release cooling additive composition of claim 1, wherein said coating includes copolymers made up of units from acrylate and vinylversatate.

of 100% ethyl cel al

absolutely

14. The controlled release additive composition of claim 1, wherein said coating includes homopolymers made up of units from ethylcellulose.

15. The controlled release additive composition of claim 1, wherein the weight percent of the coating is about 1% to about 40% based on the total weight of the controlled release cooling additive.

16. The controlled release additive composition of claim 1, wherein the weight percent of the coating is about 2% to about 20% based on the total weight of the controlled release cooling additive.

17. The controlled release additive composition of claim 1, wherein the weight percent of the coating is about 4% to about 10%.

18. The controlled release additive composition of claim 1, wherein the weight percent of the coating is about 8%.

5 19. The controlled release additive composition of claim 1, wherein said cooling additive component comprises at least one active ingredient selected from the group consisting of phosphonates, pyrophosphates, microbiocides, buffering components, cavitation liner pitting inhibitors, metal corrosion and hot surface corrosion inhibitors, defoaming agents, hot surface deposition and scale inhibitors, dispersant agents, organic acids, surfactants and mixtures thereof.

21. The controlled release additive composition of claim 20, wherein said binder is selected from the group consisting of polyvinyl pyrrolidone, sodium acrylate, sodium polyacrylate, carboxymethylcellulose, sodium carboxymethylcellulose, sodium hydroxypropyl-cellulose, corn starch, microcrystalline cellulose, propylene glycol, ethylene glycol, sodium silicate, potassium silicate, methacrylate/acrylate copolymers, sodium lignosulfonate and water.

22. The controlled release additive composition of claim 1, wherein said core further comprises a die release agent.

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